

What is claimed is:

1. A mobile communication system which transmits a data signal from a base station to a mobile station, wherein the base station comprises a signal transmitter
5 configured to transmit the data signal to the mobile station within a predetermined period, and transmit each of retransmission signals of the data signal in a form different from that of the data signal from the base station to the mobile station within the predetermined period;
10 the mobile station comprises:
 - a receiving processor configured to carry out receiving processing of the data signal or the retransmission signal within the predetermined period;
 - a communication quality detector configured to detect a
15 communication quality of the data signal or the retransmission signal; and
 - a reception processing method decider configured to decide a reception processing method for the data signal or the retransmission signal in the predetermined period, in
20 accordance with the communication quality detection result.

2. A mobile communication method for transmitting a data signal from a base station to a mobile station, the method comprising the steps of:

- 25 transmitting the data signal from the base station to the mobile station within a predetermined period, and transmitting each of retransmission signals of the data signal, in a form different from that of the data signal, from the base station to the mobile station within the predetermined period;

carrying out receiving processing of the data signal or the retransmission signal within the predetermined period in the mobile station;

detecting a communication quality of the data signal or 5 the retransmission signal in the mobile station; and

deciding a reception processing method for the data signal or the retransmission signal in the predetermined period, in accordance with the communication quality detection result in the mobile station.

10

3. A mobile station for receiving a data signal from a base station, the mobile station comprises:

a receiving processor configured to carry out receiving processing of the data signal or a retransmission signal of the 15 data signal within a predetermined period;

a communication quality detector configured to detect a communication quality of the data signal or the retransmission signal; and

20 a reception processing method decider configured to decide whether or not to receive the data signal or the retransmission signal in the predetermined period, in accordance with the communication quality detection result.

4. The mobile station according to claim 3, wherein the 25 communication quality detector detects at least one of a signal-to-interference ratio (SIR) and a received power as the communication quality.

5. A mobile station for receiving a data signal from a

base station, the mobile station comprises:

a receiving processor configured to carry out receiving processing of the data signal or a retransmission signal of the data signal within a predetermined period;

5 a communication quality detector configured to detect a communication quality of the data signal or the retransmission signal; and

10 a reception processing method decider configured to decide whether or not to decode the data signal or the retransmission signal in the predetermined period, in accordance with the communication quality detection result.

6. The mobile station according to claim 5, wherein the communication quality detector detects at least one of a 15 signal-to-interference ratio (SIR) and a received power as the communication quality.